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APPLICATION N	10.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/050,338	_	01/15/2002	Fuyun Ling	PA840C1	7562	
23696	7590	10/26/2004		EXAMINER		
Qualcon	ım Incorpo	rated	VO, DON NGUYEN			
	epartment rehouse Driv	<i>'</i> e		ART UNIT	PAPER NUMBER	
San Dieg	o, CA 921	21-1714		2631		
				DATE MAILED: 10/26/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		CAN.	
	Application No.	Applicant(s)	
	10/050,338	LING ET AL.	
Office Action Summary	Examiner	Art Unit	
	DON N VO	2631	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet v	rith the correspondence addre	ess
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a soly within the statutory minimum of th will apply and will expire SIX (6) MC e, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this comm BANDONED (35 U.S.C. § 133).	nunication.
Status			
1) Responsive to communication(s) filed on	·		
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.		
3) Since this application is in condition for allowa	ance except for formal ma	ters, prosecution as to the m	erits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>37-42</u> is/are pending in the application	on.		
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>37-42</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examin	er.		
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	ction is required if the drawing	g(s) is objected to. See 37 CFR	1.121(d).
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list 	ts have been received. ts have been received in a prity documents have been au (PCT Rule 17.2(a)).	Application No received in this National Sta	age
Attachment(s)	_		
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 		(s)/Mail Date Informal Patent Application (PTO-15	52)
Paper No(s)/Mail Date <u>1/15/02</u> .	6) Other:		

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DETAILED ACTION

Acknowledgement

1. The Preliminary Amendment filed on 10/09/2002 has been received and placed of record.

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 37-42 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 2, 5, 34, 35, and 36, respectively, of U.S. Patent No. 6,377,607. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1, 2, 5, 34, 35, and 36 of U.S. Patent No. 6,377,607 cover and encompass the limitations of the respective claims 1, 2, 5, 34, 35, and 36 of the instant application. Moreover, it is well settled that the omission of an element and its function is an obvious expedient if the

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remaining elements perform the same function as before. In re Karlson, 136 USPQ 184 (CCPA 1963).

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. References Soliman (US 6,201,954 B1) and Ramesh (6,078,626) are cited because they are pertinent to the receivers having log-likelihood ratio calculation in decoding the received signal. However, none of the cited references teaches or suggests, in combination, the arrangement of scaling the log-likelihood ratio to generate an accurate log-likelihood value for decoding the data signal as recited in claims 37 and 40-42 and further limitations of the dependent claims 38 and 39.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N VO whose telephone number is (571) 272-3018. The examiner can normally be reached on TUE FRI (9:00-6:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MOHAMMAD GHAYOUR can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DON N VO Primary Examiner

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